



UNITED STATES PATENT AND TRADEMARK OFFICE

cls

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/036,099

10/18/2001

Richard C. Cornelison

01-45

3013

7590

05/19/2004

William H. Elberg, Esq.
Three Bala Plaza
Suite 501 West
Bala Cynwyd, PA 19004

EXAMINER

BARROW, JAMES G

ART UNIT

PAPER NUMBER

3749

DATE MAILED: 05/19/2004

4

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/036,099

Applicant(s)

Examiner

James G. Barrow

Art Unit

3749

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 May 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4-18, 21, 22, 26 and 28 is/are allowed.
- 6) ☒ Claim(s) 1-3, 19, 20, 23-25, 27, 29 and 30 is/are rejected.
- 7) ☒ Claim(s) 29 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 October 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

Art Unit: 3749

DETAILED ACTION

Drawings

The drawings are objected to because in figure 3 there should be two lead lines from reference character 20 "shoulders". A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 34. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

Claim 29 is objected to because of the following informalities: In line 3 "A" should be "B". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 3749

Claims 1, 2, 19, 20, 23, 24, and 28-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Retallick (5,406,704). Retallick discloses a catalytic combustor and a method of making where a strip of metal is folded back and forth upon itself where each side faces itself (figures 2 and 5-10) to form a stack (figures 1 and 4) and where each side (3a and 3b) is selectively coated with different patterns.

Claim 3, 25, and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Retallick (5,437,099). Retallick discloses a catalytic combustor and a method of making which is formed of strips of metal, each strip having two sides, arranged to form a stack (figure 11), where each side faces the same side of the adjacent strip, where one side (figures 5a or 5b) is selectively coated and the other side is not.

Allowable Subject Matter

Claims 4-18, 21, 22, 26, and 27 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Retallick (5,328,359) and Retallick et al (5,346,389; 5,202,303; and 5,202,303) disclose catalytic combustors similar to those used in the rejection. Retallick (4,765,047; 4,673,553; and 4,576,800)) and Latty (4,930,454 and 4,687,491) disclose means for holding the catalytic element in a housing. Dietling et al (WO 99/55459) and Dalla Beta et al (5,258,349; 5,258,251 and WO 92/09848) disclose the use of multiple catalytic coatings. Bachinger et al (6,197,365), Cornellson et al (4,711,009), and Bolte et al (DE 4018704 A1)

Art Unit: 3749

disclose methods of making a catalytic combustor. Betta et al (5,512,525) and Dalla Betta et al (5,250,489) disclose the use of coated and uncoated catalytic regions for heat exchange.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James G. Barrow whose telephone number is (703) 305-5427. The examiner can normally be reached on M-F, 9:30 A.M.-6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira S. Lazarus can be reached on (703) 308-1935. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



James Barrow



Ira S. Lazarus
Supervisory Patent Examiner
Group 3700